Interagency Mechanical Operations Group Plans Information Exchange

Sandia Laboratory will host the annual meeting of the Interagency Mechanical Operations Group Sept. 25-27. About 150 representatives of contractors in the AEC weapons complex are expected to attend the meeting, according to Ralph S. Wilson (7140), chairman of the IMOG steering committee.

Purpose of the information exchange meetings, Mr. Wilson said, is to help improve design, fabrication, and physical inspection of components and assemblies. Ideas on all phases of development and production will be discussed.

Highlights of the three day meeting will include addresses by John S. Foster, Director of Lawrence Radiation Laboratory, on "The Future"; and George C. Dacey, Sandia Corporation Vice President, Research, on "Application of Optical Masers." Guests will take tours of clean room facilities in Bldg. 892, physical and electrical standards facilities in Bldg. 805, and environmental test facilities in Area III. In addition, Sandiadeveloped mechanical equipment

will be displayed in the lobby of Theater Bldg. 815 during the meeting.

S. P. Schwartz, Sandia Corporation President, will open the conference. Mr. Wilson will be chairman of the first session. C. R. Barncord (8150) will chair the afternoon session on Sept. 26, and W. A. Gardner (7300) will be chairman of the last session, Sept. 27, which includes a tour of environmental test facilities.

Sandia Corporation speakers on the program include J. D. Gilson (8151), who will present "Computer Analysis of Gage Data"; B. E. Barker (8142), "Basic Problems in Describing, Gaging and Accepting Weapon Parts"; C. M. Potthoff (8151-2) who will discuss "DC to DC Displacement Gage Heads;" D. W. Ballard (2564), "Effects of Seismic Earth Vibrations on Machine Tool Performance"; and W. A. Gardner (7300), "Environmental Testing with Judgment."

Mr. Dacey will speak at a banquet for the conference delegates at the Coronado Club at 7 p.m., Sept. 26.

Objectives of IMOG are to en-

courage effective information exchange within the AEC complex on design, manufacturing, and inspection problems and the studies leading to problem solution; study trends and potential production challenges that may result from advanced design and development efforts; study and report the capabilities of manufacturing and inspection equipment and processes; and propose programs to resolve incompatibilities. Solutions may involve modifications of existing equipment and processes, or development of new techniques.

Participating agencies include Sandia and Livermore Laboratories; Albuquerque Division, ACF Industries; The Bendix Corporation, Kansas City Division; General Electric Company, Hanford Atomic Products Operation; Los Alamos Scientific Laboratory; Mason & Hanger-Silas Mason Co., Inc., Iowa Ordnance Plant and Pantex Ordnance Plant; Monsanto Research Corporation, Mound Laboratory; Union Carbide Nuclear Company, Y-12 Plant; and Lawrence Radiation Laboratory.



HOPE, TRUST, AND CONFIDENCE show in the face of this little girl, receiving a post-surgery check at the Heart Association cardiac clinic.

(See story on Page Four)

Bell Labs Dr. J. R. Pierce to Speak

Before Two State Engineering Groups

Dr. John R. Pierce, who has been called "the father of Telstar," will speak at a joint dinner meeting of the Albuquerque-Los Alamos Section of the Institute of Radio Engineers and the Northern New Mexico Section of the American Institute of Electrical Engineers. The meeting is scheduled for Thursday, Sept. 20, at 6:30 p.m. at the Robin Hood Inn.

"Communications Satellites" will be the title of Dr. Pierce's talk. He is Executive Director, Research — Communications Principles and Communications Systems Divisions of Bell Telephone Laboratories. He is responsible for research in radio, electronics, acoustics and vision, mathematics, computers, group behavior, and communications systems.

At the Laboratories, Dr. Pierce has specialized in the development of high-frequency electron tubes, particularly traveling-wave tubes, and in microwave research. During World War II he concentrated on the development of electronic devices for military applications. He has been granted 80 patents for his inventions in electron tubes and communications circuits, especially electron multipliers, electron guns, and microwave tubes.

In 1954 Dr. Pierce analyzed the possibilities of radio relay by way



—proposed Telstar—

of artificial satellite and in 1955, two years before the first satellite, offered the first concrete proposals for satellite communications. Bell Laboratories space communications experiments are based on his original suggestions.

Reservations to attend the meeting should be made by contacting C. H. Schmidt, IRE social chairman, AL 6-0798.

lab news

VOL. 14, NO. 19

Published every other Friday for the employees of Sandia Corperation, contractor to the Atomic Energy Commission

SEPTEMBER 14, 1962

R. J. Guerin to Head AMA Seminar

Robert J. Guerin, supervisor of Accounting Methods Section 4113-2, will serve as chairman of a Program Evaluation and Review Techniques (PERT) Seminar in Phoenix, Ariz., Sept. 25-26. The seminar is sponsored by the American Management Association.

Mr. Guerin will coordinate the seminar and will act as discussion leader. Six other speakers, presented by videotape recording, will discuss various aspects of the PERT/TIME technique, which concerns planning, scheduling, and programming.

The PERT system was originally developed for use by the U. S. Navy. PERT/TIME, which concerns program evaluation and review, is used in conjunction with PERT/COST, an outgrowth of PERT/TIME which is used for cost and resource control. The two systems facilitate integrating such functions as research and development, purchasing, hiring, scheduling, and accounting.



NEW LOCKING DEVICE developed by Floyd D. Norcott and Ralph S. Fox (both 2533) is demonstrated by Justine Bassett (2530). The sliding bar at top of file cabinet eliminates use of one combination lock and saves time. Manufacturer of cabinet has shown interest in incorporating idea.

Sandia Employees Helping Plan Program for Materials Symposium

"Dynamic Behavior of Materials" is the title of a symposium to be held in Albuquerque Sept. 27-28. Sponsored jointly by the University of New Mexico and the Rocky Mountain District of the American Society for Testing and Materials, much of the symposium planning has been performed by Sandia Lab employees.

The symposium will present a review of recent advances in the measurement and interpretation of the mechanical behavior of both metallic and non-metallic solids under dynamic conditions, according to J. E. Smith (1113), program chairman.

R. W. Henderson, Sandia Corporation Vice President, Weapon Programs, will be the featured speaker at a dinner meeting at the New Mexico Union Sept. 27, at 7 p.m.

C. F. Bild, Director of Materials and Process Development, will be chairman of a technical session Friday morning, Sept. 28. Sandians presenting papers include J. H. Smith (1113), "The Three Low Pressure Spall Thresholds in Copper"; and W. J. Halpin, O. E. Jones, and R. A. Graham (all 5133), "A Submicrosecend Technique for Simultaneous Observation of Input and Propagated Impact Stresses."

I. V. Williams, Head, Metallurgical Engineering Department, Murray Hill Laboratory, Bell Telephone Laboratories, will present the keynote address.

"An Investigation of Dynamic Mechanical Properties of Polyethylene" will be presented by Shiro Matsuka and C. J. Aloisio of Bell Telephone Laboratories.

Chairman of the two-day symposium is V. E. Arnold (1124). Members of the sympoisum committee include B. H. Anderson (1112), C. F. Bild (1100), N. J. De-Lollis (1112), C. D. Lundergan (1113), R. E. Moll (1111), H. E. Montgomery (1113), and D. E. Wanner (1122).

Monday, Oct. 8, Is General Election Registration Deadline

The deadline is Oct. 8 for eligible voters to register for the forthcoming New Mexico general election. Registration blanks are available at the Bernalillo County Clerk's office in the courthouse; at Democratic headquarters, 521 Central Ave.; at Republican headquarters, 110 1st St. SW; and at Sandia Laboratory from Services and Recreation Section 3122-2 in Bldg. 610.

Family Day Planned For Tonopah Test Range

Wives and children of Tonopah Test Range employees will see range facilities for the first time during Family Day activities Sept.

Employees will be hosts to visitors from 9 a.m. until 2 p.m. The rocket launch complex, control point, radar hill, Contraves theodolite, and tracking telescope will be some of the facilities on display.

Ardent Ham Radio Operator Joins Exclusive Group of Award Winners

In ham radio circles, the Arne Trossman Award is the greatest

John C. Kanode (7312) is the 17th person in the world to receive the award. For him, it represents 10 years as a radio amateur and more than 80,000 certified contacts.

The award, issued by CQ magazine, includes a certificate and a plaque, which will be presented to him by Gov. Edwin Mechem.

John holds 250 other awards and certificates for his amateur radio achievements. To earn the awards, contacts must be made with other amateurs around the globe. Some countries can be contacted only after months of dial twisting and listening. After contact is made a "QSL" card is exchanged to verify the contact.

John's call letters are K5UYF. He uses an Invader single sideband



—17th in the world—

transmitter with a 40-ft. threeelement beam antenna. His receiver is a HQ170.

Editorial Comment

The Volunteer

Civilization is apparently of such a nature that the further we progress in it the more difficult we find it to live together. Man is seeking at least a partial solution to this difficulty by cultivating a voluntary service-association with his neighbors. As society's complications multiply, the need increases for vol-untary work among fellow men, for it is essential that there be preserved a balance between complexity and conscience.

"The Volunteer in Our Society" was discussed recently in the monthly letter of the Royal Bank of Canada. The idea was advanced that the voluntary contribution made by individuals and groups is the real foundation of a democratic society, and it is one of the ways in which, in spite of mechanization and automation, we remain human.

The numerous Sandia employees who are included in this "volunteer" classification would be interested in the discussion

of their place in society.

The "why" of working with others in a volunteer capacity is not important, according to the publication. The Talmudic principle is: "A man should perform a righteous deed, even if he does so only for ulterior motives, because he will thus learn to do the right for its own sake." Regardless of the reason for being a volunteer the end result is self-fulfillment, which is on a higher plane than self-interest.

Whatever we do in our voluntary activities we should be heartily in earnest in the doing of it. This action, not something done of necessity to earn a living or maintain a status, we choose to do as a gesture of free will, as our contribution to

society

Why do we need so many volunteers? The answers are many. We must realize that in our large and complex society some people are going to get hurt through no fault of their own. Multitudes of people need help, not because of fire, flood or war, but because of heredity, culture, and social environment. Great burdens sometimes fall upon people who are not equipped either physically or mentally to carry them.

So, what we ask of volunteers is not a compliant dealing with things as they are, but a positive, spirited investigation into what might be. Volunteers of today need to know the difference between what things are and what they should be. The valued volunteer is one who is not merely content to change as the world around him changes. He is one who wishes to be in the vanguard of a movement for improvement.

Some of Sandia's volunteers may be surprised to note they are the foundation of democratic society. They may feel they are volunteers merely to get a change of pace from the workaday world. Perhaps they feel they are expressing themselves, banishing the blues, or countering the tensions of perpetual world crisis.

Men and women have within them truths to communicate, skills to contribute, talents to share. Volunteer these and it helps make the world a better place to live.

For what do you volunteer?

Congratulations

Mr. and Mrs. James A. Johnson (7243) a daughter, Janice Marie, on Aug. 15.

Mr. and Mrs. C. J. Daniel (5132) a daughter, Mary Therese Josephine, on Aug. 29.

Mr. and Mrs. Flaviano Saavedra (4622) a daughter, Sarah Jean, on Aug. 23.

Mr. and Mrs. William E. Hall (4622) a daughter, Kay Linn, on Aug. 30.

Albert Vinsant Former Employee Died Aug. 29

Albert Vinsant, a retired Sandia Laboratory employee, died Aug. 29. He was 72.

Mr. Vinsant was a fireman at the steam plant at the time he retired in December 1956. At the time of his death, Mr. Vinsant had resided in Albuquerque 22 years.

Survivors include his widow, a sister, and two nephews.



Sandia Corporation's Medical Director, as well as Public Health Officials throughout the country, is distressed at apparent indifference toward adequate polio immunization. A recent survey conducted at a manufacturing plant revealed that only 32 per cent of the most highly-susceptible age group (40 years and under) had received sufficient vaccine to give them even a small degree of protection against polio.

Today, doctors have available two types of vaccine to protect against polio: The Salk vaccine, which is given by injection, and the Sabin vaccine, which is taken by mouth. For adequate protection either vaccine must be given in its entire dose series which is as follows:

Salk Vaccination Schedule

First injection

Second injection about six

. . . Third injection about six weeks after second

. . . Fourth injection six months or more after third

Sabin Vaccine Schedule

Since each type of oral polio vaccine can immunize a person against only one specific type of poliovirus, all three types of vaccine must be taken:

. . . First dose-Type I Second dose-Type III-six weeks later

. . . Third dose — Type II — six weeks after second dose

(Sabin vaccine can produce a booster effect on patients previously immunized by Salk vaccine but only if all three types of the oral vaccine are taken.)

If you or members of your family have not been adequately immunized against polio, now is the time to consult your family physician or local health department.

Linda Lee Burrow Died Aug. 26

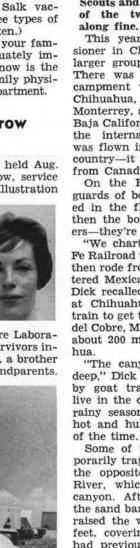
Funeral services were held Aug. 30 for Linda Lee Burrow, service clerk in the Technical Illustration Section 8233-3

Mrs. Burrow died unexpectedly Aug. 26 while convalescing from injuries received in an automobile accident.

Mrs. Burrow joined Sandia

Corporation at Livermore Laboratory in January 1960. Survivors include her parents, a son, a brother and sister, and two grandparents.







OPERATION AND USE of all types of portable fire extinguishers are required of all Sandia personnel at Tonopah Test Range. Norman J. Kennedy, Ansul Chemical Co., Los Angeles, and Thayer Coon, American Fire

and Safety, Las Vegas, Nev., were recently invited to demonstrate correct usage of extinguishers. Long distances between Control Point and different installations make fire-fighting difficult at this Nevada test site.



SUPERVISED SCOUTS — Boys recall a Mexico camping trip lead by Dick Brian (center). L to R, David Dollahon (son of D. D. Dollahon, 4362); Pat Brian; Scout Leader Dick Brian (2633); Don Patterson (son of Myrtle, 2321; and Ken Patterson, 4132); and John Schneemann (son of H. T. Schneeman, 7212). A more extensive outing is planned for next year.

Dick Brian Helps Escort Scouts Into Wild Mexican Back Country

Keeping track of two teen-agers roaming the Juarez marketplace may seem like a hard job for many parents, but imagine the problems 13 adults had being responsible for 141 Boy Scouts in the wilds of Mexico.

Dick Brian (2633) was one of the leaders and he's ready for a bigger outing to Monterrey next

The idea originated in 1961 when George Jarvis of LASL took eight scouts to Chihuahua. There was a two-day program in that city with 200 Mexican Scouts and Cub Scouts. The boys of the two nationalities got along fine.

This year the Scout Commissioner in Chihuahua asked for a larger group of American scouts. There was an international encampment with 300 scouts from Chihuahua, Mexicali, Torreon, Monterrey, and small towns along Baja California. For the first time, the international scouting flag was flown in a Central American country-it had to be sent down from Canada for the occasion.

On the Fourth of July, color guards of both groups participated in the flag raising ceremony; then the boys shot off firecrackers—they're legal in Mexico.

"We chartered part of a Santa Fe Railroad train to get to El Paso, then rode from there on five chartered Mexican Greyhound buses," Dick recalled. After the ceremony at Chihuahua, they chartered a train to get to the rim of Barranca del Cobre, Mexico's Grand Canyon, about 200 miles south of Chihua-

"The canyon is about 6000 ft. deep," Dick said, "and is reached by goat trails. Friendly Indians live in the canyon." This was the rainy season so the weather was hot and humid, with haze much

Some of the Scouts were temporarily trapped on a sand bar on the opposite side of the Erique River, which flows through the canyon. After they had reached the sand bar, brief torrential rains raised the water level about four feet, covering the boulders they had previously used for stepping

"The rescue operation, with use of ropes, took about six hours. It was one in the morning when we got the last boy out of the canyon," Dick recalled. "I was proud of the boys, though. In the canyon no one panicked; they all seemed to know what to do." The boys ranged in age from 13 to 18.

Scout Leader Brian is enthu-

siastic about such trips: "They create a better feeling of world brotherhood, and also combat any communistic traits among the younger boys in Mexico." He highly praised Mexican nationals encountered on the trip. "They were more than good hosts; they went out of their way to help us."

Dick has been leader of Troop 166 for four years and previously headed the cub pack at Cortez school for a year. He is a former Boy Scout and has two sons who are Scouts.

Supervisory **Appointments**

DONALD D. WAGNER to supervisor of Wage Administration

Section 8212-4. Personnel Division, Livermore Laboratory.

Donjoined Sandia on July 1, 1957 in Albuquerque, where he wasemployed in the job evaluation

organization. He transferred to Livermore Laboratory in October 1959 where he has worked in wage administration.

A graduate of North Dakota State University, Don was awarded his BS degree in June 1957. He majored in industrial engineering, and minored in math.

Don served three years and four months with the Army during the Korean conflict.

CHARLES B. BATSEL to Buyer, 4315-1, Subcontract Department I.

During his five and one half years at Sandia Laboratory, Charlie worked within the Purchasing Organization 4300.

He came to Sandia right after graduation from the University of New Mexico in February 1957. He holds a Bachelor of Business Administration degree.

Charlie served four years in the Air Force during the Korean conflict. He was stationed three years in the States and spent one year in North Africa, performing munitions and demolition work.

sandia corporation

albuquerque livermore

Editor: Robert S. Gillespie Sandia Corporation, Albuquerque, New Mexico Editorial Offices

Sandia Laboratory Albuquerque, New Mexico Employee Publications Bldg. 610 Tel.: 256-4411, Ext. 25253

Livermore Laboratory Livermore, California Publications & Public Relations Bldg. 912 Tel.: Hilltop 7-5100, Ext. 2395

Permission to reprint material contained herein for other than governmental use, may be obtained from the Editor, Lab News, Sandia Corporation.

Herb Plagge Works for Community

Betterment As Kiwanis Club Member

This is another in a series of articles describing the community

Flames Break Out in Home And Surround Fire-Fighting Equipment

"I was in the den with my wife and daughter," Len E. Mahuron (3453) said, recalling the sunny winter afternoon nearly a year ago when fire threatened to destroy his home. "In our home, the den is the room nearest the garage.'

It was a quiet afternoon. Len heard an unusual noise, and opened the garage door. "It took a moment for me to realize what was happening," he continued. "That is, I saw that the garage was on fire, and realized that the fire was well underway, but I wasn't fully aware of the danger of the situation."

Len shut the garage door, then asked Mrs. Mahuron to call the fire department. Next, he attempted to use an extinguisher he'd installed the week before near the garage door.

"The heat was rugged," he recalled. "The extinguisher was so hot that I couldn't get it off its wall bracket. I thought of connecting the garden hose, but it was stored for the winter . . . in the garage. Then I remembered our automobiles. I got the keys - it probably took only a few seconds, but it seemed uncomfortably longer-and returned to the garage

Len managed to save one car. "I took a terrific chance," he said. "But I was afraid the gas tanks in the cars would go up, and that

GED Tests to Be Given by University Of New Mexico

The General Educational Development Test for the State High School Equivalency Certificate will be conducted at the University of New Mexico Oct. 3 and

In some instances, this certificate will suffice for the entrance examination at the University of New Mexico.

The test is comprised of five parts: Correctness and Effectiveness of Expression; Interpretation of Reading Materials in Social Studies; Interpretation of Reading Materials in Natural Sciences; Interpretation of Literary Materials; and General Mathematical Ability. Two hours are allowed to complete each part.

The examination will be given at the UNM Counseling and Testing Services Office from 8 a.m. to noon and from 1-5 p.m.

Arrangements for taking the test must be made with W. H. Bailey (3132), ext. 47255, before Friday, Sept. 21.

would spread the fire." By the time he'd gotten one car out and returned to the garage, the flames were so high that he couldn't get to the other. Then he heard si-

The garage and automobile were a total loss, but the firemen were able to save the rest of the Mahuron home and the other auto-

"As it turned out, the neighbors had called the fire department,' Len continued. "My wife had tried, but couldn't find the right phone number to call."

The neighbors had seen the fire, evidently in its earliest stage, and had called the firemen. Their quick action brought the firemen in short order, and probably saved the rest of the house.

Looking back on the event, Len Mahuron can generalize about it with authority. He learned some important things about fire the hard way.

"I suppose I was as aware of the need for fire prevention - before the fire-as anyone else," he commented. "All of the recommended precautions are worthwhile. But you can't be too careful. For example, the extinguisher I'd taken the trouble to buy and install was unuseable.'

He still has no idea how the fire started. "I'd taken a number of precautions. Somehow, it started anyway." The thing that Len recalls most vividly about the fire was its speed. "Few people realize how rapidly it can spread, or how quickly it can destroy," he continued. "We were fortunate that the fire occurred in the afternoon. If it had happened during the night, we might not have been so fortunate.'

Fire Prevention Week this year is Oct. 7-13. The publicity on fire prevention precautions which people will receive during that week will do a great deal of good. But awareness of the danger of fire and the necessity for its prevention is necessary the year around.

The Mahuron family is especially aware of the value of one simple, but highly-important, step toward fire prevention.

"On the first page of the city telephone directory are blank spaces for emergency telephone numbers," Len explains. "It takes only a minute to copy in the correct city fire department number, or if you live outside the city limits, the number of your district fire station. You may never need to call that number. But if the need for it should come—as it did to us-you'll have it immediately. And later, you'll be thankful for your foresight."

Bob Kelly Shoots Ace for Third Time In Golfing Career

There was a surprised foursome astonished eyes.

commonplace, but this was the third hole-in-one Bob has hit in his golfing career. The first was in San Diego, Calif., when he was 13 years old; the second was about eight years ago at the Albuquerque Country Club course.

berg (also 4343).

Bob used an eight iron for the 155-yard hole. "I aimed for the hole, and from then on it was pure

Arthur Russell to Retire from Sandia On September 28

Arthur Russell of Design Definition Section 4412-5 will retire Sept. 28. He has been with Sandia Corporation since October, 1952.



Mr. Russell has been associated with Sandia's drafting organization as drafting manual coordinator since he began work here. Prior to 1952. he was

employed by the American Broach and Machine Co. of Ann Arbor, Mich., as a tool and machine designer.

For the past three years, Mr. Russell has taught evening courses at the School of Drafting Design at 82001/2 Menaul NE. In addition, following his retirement, he plans to open the Coronado Technical Institute, a two-year training program for engineering tech-

The Institute's curriculum is oriented to the needs of industry, and will include courses in drafting, geometry, mathematics, English grammar, materials and processes, process engineering, engineering standards, tool and gage design, basic electricity and electronics, physics, engineering statics, dynamics, strength of materials, structural design, and speech.

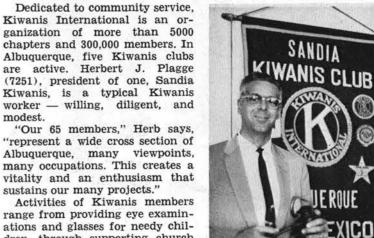
"We feel that the Institute will fill the need for technical training of many of Albuquerque's high school graduates," Mr. Russell commented.

on the seventh hole at Los Altos golf course this month. They waved on the players behind them and Bob Kelly (2641) promptly scored a hole-in-one before their

Such accuracy never becomes

Bob was playing in the Sandia Laboratory Men's Golf League when he hit the ace. Other members of his foursome were L. C. Guynes (3429/5000), Jack Reynolds (4343), and A. M. Schon-

luck," he said.



Herb Plagge (7251) Sandia Kiwanis President—

range from providing eye examinations and glasses for needy children, through supporting church programs, to banquets and social activities. Herb, as president, is involved in each of the projects. Among the special Kiwanis

modest.

Sandian who serves . . .

activities of Laboratory employees.

projects which has kept Herb busy is encouragment of high school students to enter the medical profession. "We are not recruiting future doctors," Herb says, "but we do provide an educational program for students who have an interest in medicine. Three future doctors clubs have been formed in local high schools with a total membership of about 120. Programs are arranged every two weeks and include such activities as tours of hospitals, clinics, and laboratories as well as lectures by doctors.

"Once, the group performed eye operations on specimens obtained from a local slaughter house. This was a tremendous educational experience."

The future doctors clubs have been operating since 1958. The idea spread to other Kiwanis groups and now more than 300 future doctors clubs have been formed throughout the country.

Herb has worked on other Kiwanis youth programs such as providing milk, eyeglasses, surgery, and other special medical treatment for needy children. He has also served on a committee which gave leadership and financial assistance to youth groups.

"Through our members' contacts and contributions, we get a lot of mileage out of our funds," Herb says.

Kiwanis provides scholarships, sponsors delegates to Boys and Girls State, and performs guidance counseling for youth groups. The organization has standing committees on Agriculture and Conservation Public and Business Affairs, and Support of Churches. Programs at weekly luncheon meetings aim toward broadening interests of members. Individual responsibility for civic affairs is stressed.

Herb has been a Kiwanis member for 13 years. He has served as chairman of various committees, member of the Board of Directors, and First Vice President.

Two AEC Officials Are Awarded Superior Performance Awards

Charles C. Campbell and John J. Burke recently received the Atomic Energy Commission's Superior Performance Award for their services as Managers of major field offices.

Mr. Campbell's citation refers to his leadership in sponsoring new management concepts and to his effective negotiation and administration of contractual agreements at Sandia Laboratory.

Mr. Campbell was Manager of the Sandia Area Office from 1958 until 1962. He served several months as a Deputy to the Assistant Manager for Administration in Albuquerque Operations Office until his appointment in June 1962 to succeed Mr. Burke as Manager at Los Alamos.

Mr. Burke, Manager of the Los Alamos Area Office from March 1961 to June 1962, is now assigned

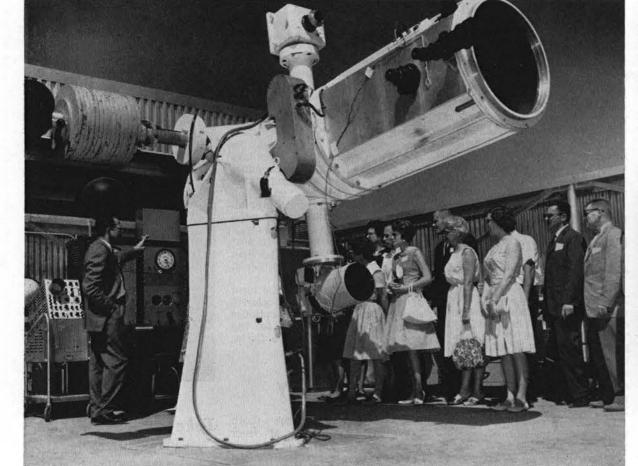


Mr. Campbell



Mr. Burke

to the AEC's Washington headquarters as a Special Assistant to the Assistant General Manager. He was cited for his outstanding achievements in the administration of major programs at Los Alamos and to his leadership in developing a program for the transfer of community ownership and operations from the government to the community.



THIRTY ALBUQUERQUE TEACHERS toured Sandia Laboratory last week as part of the annual Business-Education Day sponsored by Albuquerque schools and

the Chamber of Commerce, Dan M. Fenstermacher (7224), left, explains Sandia's 24-in. telescope during the group's tour of the East Mesa optical facilities.



SOLAR FURNACE fascinated Albuquerque teachers last week during a Business-Education Day tour. At Sandia Lab, 30 teachers saw the Sphere of Science, Van de Graaff accelerator, 7090 computer, environmental testing facilities in Area III, and viewed "The Sandia Story" movie.

Your ECP Dollars Go The Big Distance . . . Their 'Mileage' Is Exceptional



SHARING their enthusiasm with R. E. Baack (2441), third from left, multiple sclerosis patients and young helpers prepare letters about MS for mailing at local office of National Multiple Sclerosis Society.

To give Sandians a clear picture of the good works accomplished by Employees' Contribution Plan funds, the LAB NEWS presents two more reports on the agencies which receive ECP money.

The following accounts describe visits to the New Mexico Heart Association and the New Mexico Central Chapter of the National Multiple Sclerosis Society. Recently, two Sandia employees visited these agencies, and saw first-hand the uses to which ECP funds are put.

Both agencies are doing a fine job, but there's a constant need for more support, so that they can continue to provide their vital services.



RESULTS of heart X-ray are explained to a cardiac patient by physician during conference at cardiac clinic. New Mexico Heart Association provides support for the clinic, for research, and for education.

They are courageous, but they never get well . . .

As told by R. E. Baack-2441

Multiple sclerosis is a disease you don't get over. It has no known cause. There is, at present, no known cure. I learned these facts during a visit to the New Mexico Central Chapter of the National Multiple Sclerosis Society.

There are other facts that should be known. MS sneaks its way into your system without your knowing it. The first symptoms could be those of a dozen other diseases: numbness of certain areas of the body, blurred vision, dizziness, excessive fatigue. For this reason, it's a difficult disease to diagnose.

MS is amazingly discriminate. It strikes those who have entered the period of their greatest physical and mental vitality: the 20-40 age group. During their most productive years, it attacks its victims.

The pathology of the disease, limited to the control center of the body, apparently consists of deterioration of the whitish tissue called myelin, which sheathes the nerves of the brain and spinal cord. It is believed that this myelin tissue acts as an insula-

tor for the fibers which carry the nerve impulses. Various MS symptoms indicate that a "short-circuiting" or distortion occurs, preventing the nerve impulses from reaching the muscles which activate certain parts of the body.

MS has a way of teasing its victims. Occasionally, the symptoms will disappear, only to recur at a later date. When they come back, they are often more severe, and as the disease progresses, it results in weakness, paralysis, double vision, loss of balance, speech impairment, or other disabilities. However, the remission of the symptoms is a process which is thought to hold a clue to the nature of the disease. This thought is an ever-present hope to MS victims.

The battle against Multiple Sclerosis is far from won, but it is also far from hopeless. It's a quiet battle, being fought by researchers, physicians, therapists, and most enthusiastically, by patients.

At the New Mexico Central Chapter, located at 2837 San Mateo, N.E., Mrs. Lily Timmons, the executive director, told us about the work of the local chapter, and showed us some of the activities of local patients. They're busy mailing out 20,000 letters about MS to people in Albuquerque and New Mexico. Other projects include physical and occupational therapy, and publication of a newsletter about MS patients.

They're very courageous people. From their cheerfulness and enthusiasm, you can tell that hope is very bright with them. They're far from defeated by the disease

Funds come from contributions and other local support. About 40 per cent of this goes to the National Association for research. Some 60 per cent is retained for patient services, for public information about MS, and administration

After having toured the agency with Mrs. Timmons and having seen the fine work being done by the agency and by the MS patients, I realize that the New Mexico Chapter of the National Multiple Sclerosis Society deserves the support we can provide through the Employees' Contribution Plan.

I saw volunteers hard at work . . .

As told by Frank Biggs, 5411

At the cardiac clinic sponsored by the New Mexico Heart Association, I saw children and adults with heart ailments receiving help provided for them through contributions by Sandians to the Employees' Contribution Plan.

Our tour was in two parts. First, we spent a half hour with the director of the local Heart Association, Mrs. Estilene Walker, who told us of the work of the Association.

The Association is operated on contributions made by groups like the ECP members and by individuals. Part of the funds goes to the New Mexico Heart Association for research projects. Part goes to the cardiac clinic where it is used for administration and supplies.

Some of the money goes to the New Mexico Rehabilitation Center, where it is used for therapy for cardiac patients. Some is used for training of local physicians and surgeons by a nationally-known cardiologist, for a cardiac seminar for nurses, and for a speakers' bureau, films, and other educational

Mrs. Walker mentioned that in general, the basic function of the

local office is to provide means to educate people about heart diseases, and to provide funds for research.

Later, we visited the cardiac clinic, and saw the diagnosis and treatment of patients with heart ailments. Many of them were children. One, a little girl, had undergone delicate heart surgery in 1955, and was visiting the doctor for a follow-up check. In the waiting room, I saw a mother with a tiny infant, no more than a few months old. I wondered if the child was receiving treatment. Heart disease doesn't respect a person's age or background.

Exams were being made by two doctors, both terribly busy, who nevertheless took time to answer our questions about their work. Mrs. Walker told me that they both volunteer their time and efforts to treat the clinic patients. Other workers also volunteer.

During the tour, I was aware that the funds contributed by Sandia employees through the Employees' Contribution Plan go a long way. I could see the good that was being done by such contributions.

Sandia Speakers

R. E. Marsh (2564), "A Comparison of Dust Count Data Obtained From Different Measuring Methods," American Society for Testing Material Symposium on Cleaning and Materials Processing for Electronics and Space Apparatus, Los Angeles, Calif., Sept. 30.

W. E. Bosken (7311), "The

W. E. Bosken (7311), "The Electromagnetic Radiation Environment," Second Environmental Symposium (Ordnance), San Antonio, Tex., Sept. 18-20.

G. L. Krieger (1413), "An Ionized Gas Jet Surface Cleaner,"

ASTM Symposium on Cleaning and Materials Processing for Electronics and Space Apparatus, Los Angeles, Calif., Oct. 1-5.

W. J. Whitfield (2564), "A New Principle for Airborne Contamination Control in Clean Rooms and Work Stations," American Society for Testing Material Meeting, San Francisco, Calif., Oct. 1-5.

G. B. Miller (9130), "Some Applications of Hybrid Computation to Field Problems," American Institute of Chemical Engineers, Denver, Colo., Aug. 28.

L. W. Gustafson Retires Sept. 28 L. W. Gustafson will reti

L. W. Gustafson will retire from Sandia Corporation Sept. 28. He has been with Traffic Section

4335-2 since he came to Sandia 11 years ago.

Prior to his work at Sandia, he was associated with the Intermountain Traffic Bureau here in Albu-

here in Albuquerque. He plans to continue traffic work af-

ter his retirement from Sandia.
"I expect to get in some golf,

"I expect to get in some golf, and take a short vacation," Mr. Gustafson said. He also hopes to find time for visits with his son, daughter, and two grandchildren.



Dick Siebenforcher Uses 7 Years Practice As Dance Instructor

The Squared Circle Square Dance Club is inviting all interested couples to learn to square dance. Classes will begin at 7 p.m., Thursday, Sept. 20, at the Sandia Base Officers' Club. Club membership is not required for participation in these classes. Another class begins Monday, Oct. 1, 7:30 p.m., at Aloha Village Recreation Hall, Buena Vista Drive SE.

Dick Siebenforcher (4113-1) will be the instructor and can be contacted at AL 6-7562 for details.

Dick is currently calling for the Squared Circle Club, the Aloha Squares, and the Fiesteros Round Dance Club. He has been a square dance instructor since 1955.

Sandian Plays Feature Role in State Fair Saga

Margaret Wetzel (3441) has a featured role in the historical pageant, "Saga in the Sun." The pageant commemorates New Mexico's 50th year of statehood. Performance will be at the State Fair coliseum tonight beginning at 8:30.

Other Sandians in the cast include Terrence M. Clark, Gail B. Ward, Richard K. Strome, James B. Walston (all 3463), Ray C. Smelich, Ellen Jones (both 3446), and Cim Adams (4623).

Margaret Wetzel plays the role of "Sister Nell" who comes into a rough mining town to conduct religious services. She firmly takes over the saloon, faces opposition and danger, but triumphs over all except the mass excitement of a gold strike.

Assisting backstage with costumes and makeup will be Ann Huddleston (3463) and Jean Burke (3441).

The pageant will be in the form of 21 scenes presenting colorful personalities in factual episodes from pre-Spanish days to the present. Included will be a fiesta, can-can, and hoedown.

Sympathy

Jeff and Sam Blaylock (both 4573) for the death of their mother in Los Lunas Aug. 30.

Henry R. Aira (4621) for the death of his son Sept. 1.

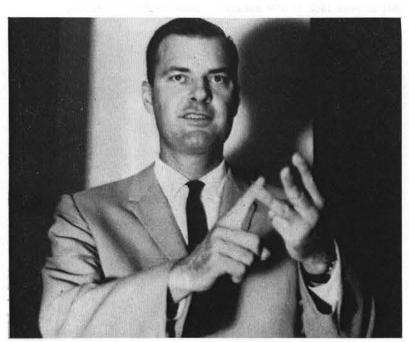
Donald Barack (4254) for the death of his father Aug. 19 in Detroit, Mich.



Cindy Williams (3452)

Take a Memo, Please

In the language of the safety engineer the disabling injury frequency rate is the number of disabling injuries per one million employee-hours of exposure.



RECEIVES TOASTMASTER AWARD — J. Thee Wheelis (2543) recently received a certificate of merit from Toastmasters' International for completion of "basic training" in speech fundamentals. The 12-part program required two years work. Thee is Sgt.-at-Arms of Toastmasters' 765.



SIGN AGREEMENT - Sandia Corporation and the International Guards Union of America, Local 27, have negotiated an agreement providing a 21/2 per cent wage increase beginning Oct. 1. From left are Donald R. Weldon (3222), Ernest C. Peterson (3220), David S. Tarbox, Director of Security and Industrial Relations 3200, Hugo Flores, Local 27 Business Agent, and Carl R. King, Local 27 President. Signing was Sept. 7.

Albuquerque Civil Defense to **Offer Three Short Courses**

Three special short courses are being offered by the Albuquerque Civil Defense Headquarters. In addition, CD is cooperating with the University of New Mexico Community College in presenting Radiation Effects of Nuclear Weapons.

The short courses are Biological and Chemical Warfare, Radiological Monitoring, and Decontamina-

Biological and Chemical Warfare will be offered on Thursday evenings from 7 to 9 in Room 104, Mitchell Hall, UNM from Oct. 4 through Nov. 1. Recently-developed biological and chemical weapons will be discussed along with medical problems created by their use and methods of protection against them.

Radiological Monitoring will

meet Saturdays, Oct. 13 and 20, at CD headquarters, 1120 Stover Ave. SW, from 8 to 12 noon and from 1 to 4 p.m. The course will cover measurements of radiation and offer actual practice in the use of various types of radiation

The Decontamination class will meet Thursday evenings, Nov. 8. 15, and 29, from 7 to 9 p.m. in Room 104, Mitchell Hall, UNM. What to do when there is radiological, biological or chemical contamination of persons, food, buildings, vehicles, and land will be dis-

To register, call CD headquarters, CH 7-9536. The Community College Rediation course costs \$12 and enrollment is by regular Community College procedures at UNM. The other courses are free.

Welcome Newcomers

Aug. 27-Sept. 6

Albuquerque	
Gerald D. Arnold	4254
Antonio R. Baca	
Jerry R. Brooks	4254
*Phyllis P. Ciminski	3126
*Betty D. Cummings	4315
Richard A. Hawley	
James C. Hennie	
Robert I Kehl	4254
Gilbert F. Padilla	4254
Stella M. Sanchez	3452
Charles M. Sanders	4233
Thomas F. Springer	
Aurelio R. Teta	2341
*Clyde H. Townsend	4254
*Sue Williams	
Arizona	0120
George T. Kupper, Tucson	4332
California	4002
Robert E. Haymond, Riverside	5422
Florida	J422
Charles F. Courtney, Orlando	2551
Michigan	2551
Warren O. Weingarten, Houghton	1411
Missouri	1411
Larry D. Ferree, Webster Groves	3111
New Hampshire	0
Ray C. Mueller, Hanover	1314
New Mexico	1314
Dwayne D. Little, Los Alamos	4233
Edward Rankin, Ruidoso	
New York	4200
Patricia A. Gleasman, Elmira	5132
Patrick M. Moore, East Aurora	
Morton L. Slater, Grand Island	
Texas	0420
Daniel Colunga, Austin	3453
Malcolm L. Cooper, Austin	2624
David P Smith Je Houston	1313
David R. Smith, Jr., Houston Curtis R. Unnasch, Tyler	7536
* Denotes rehired	/ 550
Delioios Terrifeu	

Back to School For Employees Starts Monday

Some 1500 employees are expected to begin Out-of-Hours classes Monday, Sept. 17, according to Technical and Trades Training Division 3132. Enrollments, which began Aug. 15, are still possible in most of the 70 courses offered in the program.

Three general areas of study are offered: Trades and Clerical, Technical Institute level, and University level. All classes are job related and designed specifically for Sandia Lab employees.

Out-of-Hours booklets with complete course listings and enrollment information are available from Division 3132, Bldg. 813.

Fall YMCA Program Begins for Youngsters

The fall recreation program at the Central Branch of the YMCA began last week. Memberships and enrollments are still open, however, to participate in gym classes, swim courses, trampoline, tumbling, basketball, wrestling, volleyball, and all types of games.

Boys and girls from ages 8 through high school are eligible to enroll. Parents are invited to call the Central YMCA, CH 3-5631, for further information.

Local Magicians Meet Tonight

Sandians interested in magic are invited to an open meeting of the Atomic City Mystics, a group of local magicians, to be held at 7:30 p.m. this evening at 1908 Virginia

The Atomic City Mystics are affiliated with the Society of American Magicians. More information is available from Willard A. Stamm (1411), telephone 299-5720.

Sandia Bowlers Place Third in Tournament

Five top Sandia bowlers teamed up recently to win third place in the Southern Alameda County Industrial Recreational Tournament in which 113 teams competed.

Members of the team were Marilyn Larson (8243-4), team captain; Charlie Comito (8114-5), Paul Dominguez (8213-2), Ruth Powers (8212-3), and Gary Konopka (8214-1).

Tournament play began in July. Members of each team had to be employed by the same company.

The group called themselves "Four Wrongs and a Right;" four of the team members are southpaws. Theirs was the only Sandia team entered in the tournament.



Dorothy Mohart

Meet Your Reporter

Dorothy Mohart (3131-2) is another of the Lab News' most active volunteer reporters. At Sandia for ten years, she's worked for the past two years in the University Education and Liaison Section, where she handles educational aids and technical development program enrollments. Previously, she worked for eight years in Manufacturing Development Organization 2500.

One of Dorothy's major hobbies is her two daughters and two grandchildren. "They occupy much of our thoughts," Dorothy commented. "They're a real joy to us."

She spends some of her spare time playing an electric organ. "My husband and I also enjoy taking short trips during our vacations," she added. "But now we have a trip to Hawaii planned for

SHOPPING CENTER

CLASSIFIED **ADVERTISING**

Deadline: Friday noon prior to week of publication unless changed by holiday.

- RULES 1. Limit: 20 words
- One ad per issue per person Must be submitted in writing
- Use home telephone numbers
- For Sandia Corporation and
- AEC employees only No commercial ads, please Include name and organization

FOR SALE

CAR TOP luggage rack, \$5; suds saver tub for auto. washer, \$5; 6V car air conditioner, \$15; platform rocker, \$6. Herrmann, AX 9-5598.

SIAMESE KITTENS, purebred, no papers, \$10 ea. Schooley, Los Lunas 865-9371. SILVER FOX FINISH coffee table and two large end tables each with table lamps, all for \$25. Neun, 3600 Parsifal NE, AX 9-9188.

CAR TOP CARRIER w/fitted canvas cover; small refrigeration unit; 10'x24' aluminum patio cover, will divide into 10'x12' sections. Cannon, AX 9-4592. WOODEN DOOR w/hardware, 30"x80", \$5. Miller, AM 8-5992.

GIRL'S 24" bicycle, used very little. Houghton, 1413 Guaymas Pl., NE, AX 9-3386.

BUGGY; infant seat; Nip'n Nap baby clothes; scale; insulated bottle bag; high chair; portable clothes line. Long-necker, AX 9-6446.

GO-KART, 2½ cycle 1 HP West Bend engine, \$75; portable television Airline 10½", \$35. Monette, AX 9-3517.

260 ENCYCLOPEDIA AMERICANA set, 30 books plus 2 year books, never been used, \$125 or best offer, Smith, ext. 5-4176 after 5:30 p.m.

10" LATHE, 36" bed, quick change gear box, 4 jaw chuck, collets up to ½"; wrenches, tool holders, etc., \$450. Lowe, A1 5-4719

GIRL'S BICYCLES, 20 and 26 inch, \$12.50 ea.; 4 7.10x15 used recap tires, 2 snotreads, \$4 ea., 2 standard, \$3 ea. Moculeski, AL 6-7609 after 5:30 p.m.

1962 WARDS Carefree Camper 18x7 tent, take over payments. Bourne, 299-0788.
'53 DODGE PICKUP, heater, sell with or without metal stock rack. Welborn, TR 7-2458.

'49 HUDSON, \$75. Vigil, CH 2-2969. 3-BDR HOME, garage, built-in kitchen, carpeting, drapes, fenced, near schools, \$650 down, \$85/mo., GI, between 1-4 p.m. McKee, AX 8-1504.

Y OWNER, 3-bdr, 2 baths, carpeted, drapes, etc. new FHA or pay down to existing $4\frac{1}{2}\%$ GI. Sullivan, 255-8070.

ASSORTED CERAMIC TILE, best offer. Geilenfeldt, AM 8-2886. CONN Caprice electric organ. Nelson, TR

'53 MERCURY 4-dr., one owner, 59,000 actual miles, new tires, battery, brakes, \$395. Jenkins, AL 6-1923.

KOOL-HOME exhaust fan, 20", 2-speed, w/window supports, \$12. Coughenour, 299-0914.

TWO CHESTS OF DRAWERS; 2 youth beds, six fitted, two top sheets; 2 pillows w/cases; complete \$35. Hall, 1804 June NE, AX 9-6689. '56 PONTIAC station wagon, 9-passenger, automatic trans., will sell under book value. Lucero, 298-3656.

TWO LOYD UNICYCLES, one 24" ridden slightly, one 20" never ridden, \$25 each, both for \$45. Prekker, 9413 Morrow Rd., NE, AX 9-6468.

NE, AX 9-6468.

RELOADING TOOLS for pistol and rifle; press, resizer, dies, lubricators, molds, bullets, primers, powder, scales, etc., all for ½ list price. Baxter, 1610 Bayita Lane, NW, DI 4-7601.

BEAUTYREST mattress and matching springs, \$40; bed divan, \$50. Cashion, 242-3345.

'56 BUICK, PS, PB, 4-dr. Roadmaster, \$350. Alisch, AX 9-1201.

26" BOY'S BIKE, American type, new paint, \$12. Moore, AX 8-3231.

'56 CHEV 2-dr 210, V-8, rebuilt eng., transmission, front and rear suspension, and brakes, \$575. Roelle, 298-3309 after

5 p.m.

JEEP TOWBAR; 26" girl's and boy's bikes;
3/4 length Mouton fur coat, size 14;
32 cal. automatic w/holster. Pliner,
6210 Bellamah, NE, AL 6-1907.

MATCHED STEREO Warfedale speakers in
Karlson walnut enclosures, the pair for
less than the cost of one. Browning, AX
9-6384.

'58 FORD PICKUP F-100, 4-speed transmission, and camper, \$995. Miner, AL 5-6342.

HIDE-A-BED SOFA and matching chair, innerspring mattress on sofa, grey frieze, \$25. Reese, AX 9-0866.

SIAMESE KITTENS, \$15. Gamble, AX 9-BOY'S 26" bicycle, new tires, \$20. Schneider, AX 9-6243.

SELL OR TRADE, Leslie 50-watt amp., used on Hammond organ, originial cost \$795, \$75 cash; need hunting and camping equipment. Poore, AM 8–2036.

PLYMOUTH Savoy, R&H, OD, \$250. tephenson, AX 9-3914. .22 BOLT-ACTION Remington rifle; aluminum window, 3'6''\S'; steel windows; Heathkit transmitter DX-40; old car parts. Villella, 9204 Susan, SE, 299-

24" GIRL'S bicycle, \$15; screen door, 82x 36, \$6. Hanks, 824 Alvarado Dr., SE, AL 6-2917.

11/4 ACRE LOT in choice residential area of Tijeras Canyon. Burrell, DI 5-0416.
TRUNDLE BEDS, \$49; sabled oak dining set, \$69; cabinet for HiFi equipment, \$29; 20-gal. tank, \$9. Winblad, DI 4-3109.

'57 FORD Custom 300, auto. transmission, \$750. Chartoff, AL 5-3504 evenings. BOY'S BICYCLE, 28", Fedway Roll-Fast, new tires, \$20. Pitti, AL 6-1629.

BOY'S 26" Schwinn Varsity Bike, \$18. Clark, AM 8-7414.

MTN. CABIN, sell or trade; '53 Plymouth, recent engine overhaul. Kane, 299-0382.

GIRL'S Schwinn Racer, 3-speed, \$25; bridge lamp, \$3; 2 good western felt hats; GE 8-hr. vaporizer. Mitcham, AX 9-8425.

NEXT DEADLINE

FOR SHOPPING CENTER ADS Friday Noon, Sept. 21

TWO-PIECE KROEHLER sectional, green wool frieze; blonde plastic-top corner table and matching step table, \$50. Dieter, AL 5-8056.

3-BDR, w/b fireplace, living and dining room, 13/2 bath, garage, extras, \$16,695, Mankin Foot Hills Estates. Fessia, 298-3998.

BASSINET; bathinette; buffet; bird cages; basketball net; radio-record player com-bination — needs repair. Russell, AX 8-2439.

STULTZ & BAUER console piano w/bench, \$400. Nelson, AL 6-6300. HOWELL BREAKFAST SET, marbelized for-mica, 4 chairs, \$25; blande coffee, step-corner, and 2 step-end ables, all 4, \$25. Kraft, AX 9-1278 after 5 p.m.

15' FIBERGLAS SPORT BOAT, 35 HP motor, trailer, ready for use, \$650. Brock, AX 9-3954. 9 TR3, cloth top and tonneau cover, w/w, wire wheels, new tires, \$1350. Davis, 2607 Stevens Dr., NE.

RUMPET, B flat, w/case, mutes, and music stand. Miziker, AL 5-4177.
CHILDREN'S BOOKS including 9 volumes of Junior Classics, \$125; Roto-broil rotisserie, \$20. Southerland, 8903 Claremont NE, AX 8-1647.

'52 GMC PICKUP ½-ton, 3-speed, R&H, 15" tires, turn signals. Gonzales, CH 2-5084. ELECTRIC REFRIGERATOR, 9-cu.-ft. Westinghouse. Strome, AL 6-1779.

inghouse. Strome, AL 6-1779.

3-BDR, family room, 13/4 bath, a/c, corner lot, sprinklers, \$13,200. Flesner, 1628 Muriel NE, AX 9-9304.

SELL OR RENT: equity in large 7-room adobe, carpeting, drapes, 5 acres, al-falfa, Los Lunas area. French, Underhill MAPLE TWIN BEDS, can be bunked, w/2 innerspring mattresses, \$35. Sherwin, AL 5-8866.

AUDIO AMPLIFIER, public address type portable carrying case w/speaker, 10-watt output, dual input, \$9. Grab, AX 9-0015.

"GE pushbutton range; small chrome/ formica table w/2 chairs, sell or swap for 8mm equipment. McDowell, AX 9-

HUNTING BOW, 40-lb., recurved fiberglas, 6 new hunting and 8 used target ar-rows, \$28; Buick radio, \$12. Clark, AX

1-WHEEL TRAILER, all metal, fully en-closed, \$60 2 '55 Ford radios, \$15 each; '56 Ford radio, \$20. Ernst, 268-9414. CAMPING TRAILER; '59 Corvette; 5-ft. bar, striated wood, red linoleum top, swing gate, \$12. Scranton, AX 9-5720. STUDENT INSTRUMENTS, Besson Oxford trombone and King trumpet. Maciolek, AX 9-1696.

'53 JEEP 4-whl. dr. station wagon. Stopp-kotte, AX 9-4760 after Sunday. BOY'S BICYCLE, 26" English make, \$10. Krebs, AL 5-1738 after 5 p.m. EICO HF-61AK preamplifier, Collaro Con-tinental TC-540 changer, Electro-voice Aristocrat 12TRXB speaker system, will consider trades. Bortniak, 298-5093.

PUMP, electric jet (water) Sears model w pressure tank, \$50. Pohl, DI 4-8503. 15 VOLUME SET Encyclopaedia Brittanica Jr. w/2-volume dictionary, recommended for grades 4-9, \$90. Barefoot, 877-0310 after 6 p.m.

after 6 p.m.

2-BDR HOUSE, redecorated, carport, wall, near schools, below \$10,000 FHA appraisal, vacant. White, 268-9447.

CHILD'S swing set, \$10; children's redwood table w/attached benches, \$3.50; Oster electric knife sharpener, \$5. Bauer, AM 8-9735.

'60 BSA Starfire motorcycle, \$425; Model 71 Winchester, .348 cal., \$100; two 760: 15 w/w tires, tubes, wheels for late mod-el Chevrolet. Wilson, AX 8-0049.

.300 SAVAGE, model 99G, lever-action ri-fle, \$85. Freyermuth, AX 9-2053 after 5 p.m.

PARADISE HILLS, 4-bdr, 13/4 bath, elec. kitchen, large lot, carpool to work, \$2700 takes over \$113/mo. loan Duvall, 898-2295.

TWIN BED, box springs and mattresses, bookcase headboard, \$35. Smith, AM 8-1349, 1029 Florida SE. '58 FAIRLANE 500, 4-dr., V-8, Automatic transmission, PS, low mileage. Jeske, AX 9-2810.

BABY FURNITURE, crib, strollers, bathi-nette, mattress; garden tools; lawn mowers; artist's easel; leather jacket; Parka; child's table, chair. Stamm, DI 4.7421

TWO-WHEEL utility trailer, 8'x10'. Erne,

O' CAMPTRAILER, fully equipped, \$325; 3-speed record player, \$10; men's roller skates minus wheels. Overton, 298-3017 after 5:30 p.m.

'61 OLDS 88, white conv., 12,000 orig. miles. Lopez, AX 9-4255.

YOUTH BED w/mattress, almost new, \$30. Anaya, AL 6-1203. KODAK BROWNIE movie camera, 500-watt projector, licht bar, and lens filter. Chadwick, AX 8-1298.

'58 OLDS S-88, PS, PB, a/c, Comiskey, AM 8-5120 after 5 p.m.

'55 PONTIAC, hydromatic, R&H, w/w tires, \$400 or trade part for gun or binocu-lars. Atkins, AL 5-8849.

BLOND dropleaf table, \$20; 4 blond cap-tain chairs, \$20; 2 occasional chairs, \$25; tier table, \$7.50; magazine table, \$7.50. Sheppard, AL 5-5375.

BASSINET, folding legs, hood, \$10; child's white wardrobe chest, \$30. Landrith, AL 5-6968. WATER HEATER, 30-gal., electric, Sears; counter top; glass lined tank, \$20. Clenney, UN 4-8394.

5' RICH PLAN FREEZER, used 3 mos. \$200; 26" girl's bicycle, \$20; boy's shoe skates, sizes 7 and 8, \$5/pr. Mitch-ell, AL 6-9651.

.300 SAVAGE, model 99, Weaver KV scope, Redfield mount, sheepskin carrying case, Outer's cleaning kit, complete, \$165. Noel, AX 9-7963.

'60 SCOOTER, Cushman; Gibson electric guitar w/amplifier. Sandy, AX 9-0980 after 5 p.m. TWO PAIR pinch-pleated green, lined drapes, will fit 6' wide window, 36" length. Donaldson, AL 5-8987.

'55 PLYMOUTH V-8, R&H, auto. trans., original owner, \$295. McKinley, AM 8-4779.

5 MM CAMERA, Kodak Retina II with f2 Xenon lens, flash, self-timer, other accessories, \$65. Petrone, AL 5-3633 after 5 p.m.

OVER AND UNDER .22 rifle/410 shotgun, with ammo supply, \$30 or best offer. Berger, 1034 June NE, 298-4234.

WINCHESTER 30-30 carbine, \$35; shotgun, 12 ga. bolt, \$15, will trade for old US currency, coins or confederate money. Zaluga, DI 4-1564.

KROEHLER COUCH w/hide-a-way bed w/in-nerspring mattress, chair, \$20; Dormeyer deep fryer, \$10. Cook, AX 9-7509. STOVE, FRANKLIN, \$30. Clenney, UN 4-8394.

BABY BED; play pen; safety server feed-ing table; car bed; 16" Admiral con-sole TV. Brooks, AX 9-1884.

BOODLE BUGGY, \$10. Manlief, 298-4417. DOUBLE BED, springs, Postur-Pedic mat-tress, \$30. Weart, AX 8-0614.

'55 CHEVY 2-dr., \$350; snare drum w/ strap and two sets of sticks, \$15. Smoll, AX 9-0023.

REGISTERED German Shepherd puppies, 6. weeks old. Bowen, AX 9-3107. 2-PIECE turquoise sectional; corner and step tables; lined drapes, 17'x8'; 1-way drapery rods, 86"-156"; clothesline. Clement, AX 9-6552.

WANTED

WORLD BOOK encyclopedia, complete set, good condition. McNeely, AX 9-4232. vicinity of Carlisle and Smith. Hayes,

TO TRADE 1961 Rambler, 18,000 miles, balance \$1033, for a 1958 Chevy. Montano, DI 4-3797. WANT TO RENT, NE hgts., 3-bdr house; walled back yard, close to schools, \$90 to \$100. Lewis, AX 9-2322 after 5 p.m.

RIDE to bldg. 800 from vicinity of Indian School Rd. and Parsifal NE. Blazek, 299-6789 after 5 p.m.

MODEL HO electric train set, must be in good condition. Smith, AM 8-1228. RIDERS FOR CARPOOL from vicinity of Indian School and Eubank to east parking lot. McKinney, AX 9-2481.

FREE TO GOOD HOME, male, female and young guppies. Gragg, AX 8-0267.

FORM CARPOOL Los Lunas, vicinity Sun Valley estates. Shuman, 865-9329.

FOR RENT

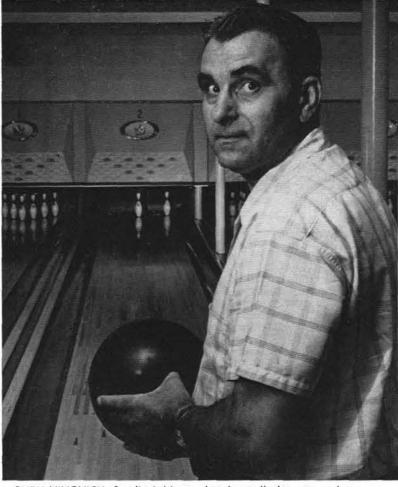
2-BDR. HOUSE, 141 Headingly NW. Martinez, AX 9-1918.

4-BDR. HOUSE, NE near schools and shop-ping, \$100. McFall, AX 8-1552.

LOST AND FOUND

LOST—Lady's gold Bulova watch, Chicka-sha check book, Ford trunk key, 4-color gold lead pencil; turquoise earring, key marked X-3. LOST AND FOUND, ext. 29157.

FOUND—bifocal glasses w/black rims found on Christmas Island, Lady's Harlen gold wotch, mountain club pipe, clear gog-gles, steel holder w/knife and file, en-velope with 6 foreign stamps, silver pin w/arrow and rabbit, black zipper to-bacco pouch. LOST AND FOUND, ext. 29157.



RUDY VINOVICH, Sandia Lab's top bowler, tells how to make spares and splits. Rudy bowled 193 high average game during last season,

Sandia's Top Bowler Advises Confidence and Attention

For some 500 Sandians bowling in Sandia Laboratory leagues, summer's end means renewed

Rudy Vinovich (2642), last year's top Sandia bowler (193 game average), was getting his arm in shape last week at the Coronado Club. Automatic pinspotters worked at top speed as he threw several strikes in a row. Then he missed one. Three pins stood.

"You have to make the spares," Rudy said. "Strikes are fine; shoot for them, but you have to make the spares to stay on top."

Carefully Rudy surveyed the stand, then with perfect control, he put the ball right between the spread and took all three pins.

"Most bowlers miss spares because of tension and careless-ness," Rudy said. "Concentrate on what needs to be done, then relax, and let the physical motion

Rudy continued talking on his favorite subject: how to bowl skillfully. "Bowling is fun," he said. "And it's more fun when you get good scores." Rudy has been bowling about three nights a week for the past 20 years. His collection of trophies, including national honors, numbered about 50 at

He passed on the following hints to bowlers who want to improve their game:

1. Select the proper ball with holes close to the size of your fingers and thumb. The span, distance from the thumb to finger holes, should allow your hand to fit comfortably, not stretched or cramped.

2. A method to find your proper starting position, which eliminates either too-long or too-short stepping, is to stand with your heels at the foul line. Next, walk backwards as many steps as you take in your normal approach to throw. This is the proper distance for you.

3. Face the target, with feet pointed toward the pocket. Hold the ball about waist high, with thumb at the top, just slightly to the side. Think of the ball as a clock face. A right hander's thumb would be at 11 o'clock, a left hander's at 1 o'clock.

4. Take medium steps, not too fast. On the first step roll the ball out of the supporting hand and push slightly forward. Your arm becomes a pendulum with the elbow straight. If this is performed correctly, the ball will

have a natural spin, achieved without wrist twisting.

5. Release the ball with the thumb straight to the top and aimed right at the pocket. (I always aim for the five pin. Beginners should not try to be spot bowlers. Always look at the target and aim.)

6. If the ball does not drive toward the pocket, it means that you have pushed it too far out on the first step. If you're off balance at the foul line, it indicates you are using too much speed. A good bowler keeps in balance and control at all times. On the first step, the ball is out only as far as his extended foot.

7. In shooting for spares, angle is most important. Always point your foot at the closest pin. Walk in a straight line toward the target at the angle you choose and follow through the same way as when delivering a strike ball.

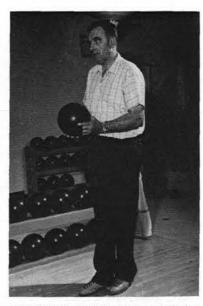
8. On single-pin spares, try to hit the pin dead center. Don't be satisfied with just knocking it down, but try to hit it just where it should be hit.

9. Two pin spares, such as the 4-7, and 6-10 are common. These are tricky, because they seem so easy to make. The main pitfall is hitting the front pin too full, often resulting in missing the other one entirely. Too thin a hit will also slide the front pin across without even touching the remaining one. Let the ball do most of the work-go for the pocket between the two pins and the ball will strike both.

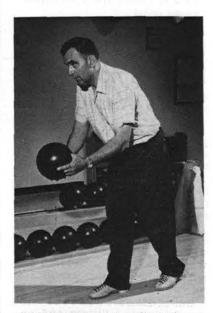
10. This holds for splits, too. Splits are difficult, but always use the ball when possible to strike both pins. The wider the split, of course, the harder it is to make. The 7-9 can only be made by hitting the 9 so thinly that it slides across to take care of the 7. The 8-10 is the same thing in reverse.

11. When you're confronted with wide splits straight across, it's wisest to shoot for one pin. Getting the spare is unlikely, and it's sometimes better to accept the open frame with a score of 9 than take the risk of missing both

"Generally have confidence in your ability," Rudy advises. He points out that this is a tremendous help. "Concentrate and relax. Practice the fundamentals. And when you're having difficulty, don't hesitate to ask an experienced bowler for help. They love to give advice."



WINNING TECHNIQUE - Rudy Vinovich demonstrates bowling basics. He aims for target, holds ball high, thumb at 11 o'clock.



FIRST STEP - Rudy rolls ball out of supporting hand, takes medium sized step, ball not too far out.



PENDULUM ARM - Rudy keeps elbow and wrist straight for a full swing at medium speed. At this point, physical motion takes over.



SMOOTH RELEASE - Ball is heading right into the pocket. Rudy has perfect control. He aims at five pin.

Alaskan Vacation Is Lollapalooza — 9166 Miles of Only Minor Problems

Don't mention Alaska to John Piri—at least not until he has sufficiently recovered from his recent 26-day, 9166-mile drive to the northernmost state.

John (4232-2), his wife Dorothy, her mother Ruby Groll (3462), (3462), and their two sons, ages 13 and 6, made the trip this summer in a '55 Pontiac, pulling a 16ft. trailer. Despite the 1200-mile stretch of gravel road (traveled in both directions), the car and trailer survived in fine shape; the travelers now need a vacation.

Dorothy, keeper of the travel log and thereby spokesman for the group, had this to say: "You have to really want to drive! John had to drive 12 hours some days and, except for about 500 miles, the Alaska Highway was dry and dusty. At least, above Edmonton it was daylight most of the time, but then it was hard to convince the children it was time to go to bed."

The hardy travelers passed through Yellowstone National Park, Glacier National Park, and Calgary, Banff and Lake Louise in Alberta, Canada, before picking up "Milepost O" at Dawson Creek, British Columbia. Then through the Yukon to Tok Junction, Alaska. From there the road is paved into Fairbanks, their destination.

On the return trip they made a 400-mile side trip off the Richardson Highway to visit Mount Mc-Kinley National Park and see the 20,320-ft. highest point in North America. At Anchorage they took the Glenn Highway to rejoin the Alaska Highway at Tok Junction.

Traffic was heavy this summer in Alaska-they saw other cars at least every two hours.

Both governments maintain free campgrounds every 50-75 miles along the way. The Piri's stopped at these and frequently met the same travelers at other campgrounds. "We felt sorry for people camping in tents," Dorothy said. "There were so many mosquitos!" The camps were all supplied with water-either hand pumps, nearby creeks, or rivers. Each had at least

Sandia Laboratory Safety Record Falls After 28 Days

An accident last week spoiled Sandia Laboratory's safety record. As an employee unloded an eight-ft. aluminum cylinder from a fork lift onto a moveable steel table, he was unable to keep the table and cylinder from rolling. The cylinder fell onto his foot.

The employee was treated by the Medical Directorate 3300 and sent home to recover.

At the time of the accident. Sandia Lab employees had worked 28 days or 980,000 employee-hours without a disabling injury. Last week's accident was the 14th since the first of the year.

Service Awards

10 Year Pins Sept. 15-30
T. L. Forcum 4252, P. I. Gaither 2622, J. H. Hall, Jr. 4574, Robert Lowery 7522, E. D. Machin 1431, Irma N. Buffett 5413, W. L. Cyrus 4413, F. C. Elder 4516.
Hilario Garcia 4212, Arthur Huchmala 4412, Betty G. Pickel 4300, Elsie B. Sandy 2632, O. C. Braune 7524, J. H. Vondreele 1332, Louis Yannoni 4621, H. G. Brim 7536.
Chenault Davison 4361, S. J. Mullins 4514, Bonnie G. Prentice 7146, D. K. Robbins 3454, J. F. Russell 7523, C. J. Bachmann 8166, Violet M. Barnard 3241.
J. W. Sims 4111, A. G. Schuknecht 8213, C. O. Armstrong 4212, C. S. Padilla 4614, B. A. Clouse 2632, F. A. Collatz, Sr. 2644, T. R. Glauner 4413, F. K. Gregory 4252, W. T. Holmes 7182, R. E. Maxwell 8214, and R. P. Tyler 4410. 7300

one cook shack in which four families could jointly use the huge wood stove and picnic tables.

Milepost 496.5 in British Columbia was a welcome spot: Laird Hot Springs was one of the few spots along the way for bathing. "It looked like a jungle oasis," they reported.

The Piri sons enjoyed the wide variety of wild life. They saw grizzly bear and frequently saw moose, eating plant roots in knee-deep water.

Are they ready to go back? No, sir! "But we'd sure like to take a longer vacation in Alberta, Canada," they agree.

J. L. Kay Gets Trophy For Winning Benefit Cross-Country Air Race

John L. Kay (4411) received a trophy recently for winning an air race between several New Mexico communities. The race was sponsored by "99," an international club for women pilots. His wife Irene (4131) is a member and helped conduct the event.

Competitors had to fly from West Mesa airport to Belen, Socorro, Grants, and return, and identify a marker at each of the points. There were handicaps for various types of planes. John covered the route in one hour, 28 minutes in his Beechcraft Bonanza.

The race was conducted by the women pilots to raise money for a scholarship fund.

ECP Captains Chosen; Drive Will Be Oct. 1-3

Captains for the 1962 Employees's Contribution Plan Fund Drive, to be held at Sandia Laboratory Oct. 1-3, have been appointed. Their names and organizations follow:

Captains

Org.

1100)

G. J. Hildebrandt (1330) 1300) 1400 R. T. DePew (1411) 2300) W. C. Kraft (2450) 2400) J. R. Sublett (2560) 2600 J. R. Meikle (2632) (J. R. Garcia (3133) (C. C. Fornero (3153) (D. R. Weldon (3222) 3200) (W. W. Ives (3463) 3400) (L. F. Parman (3421) L. R. Neibel (4330) (M. E. Grothe (4150) (E. M. Hodges (7534-2) (B. D. Neil (4212) (C. E. Runyan (4220) (D. A. Watt (4233) (A. C. Taylor (4254) K. H. Lloyd (4411-5) (J. H. Simmons (4513-2) (S. L. Johnson (4542) (L. R. Wilson (4574) (W. A. Otero (4624) (A. Blain (4614) 5100) 5300) D. H. Anderson (5132) 7100 A. Y. Pope (7130) (T. L. Pace (7221) 7200 (H. S. North (7241)

Sandia Corporation Albuquerque, New Mexico

BULK RATE U. S. POSTAGE

W. H. Cross (7311-2)

PAID

Albuquerque, N. Mex. Permit No. 232

Return Requested